Philosophy 4214: Metaphysics

We will examine three main approaches to metaphysics in 20th Century philosophy: (1) Metaphysics through the analysis of language. We will read the English philosopher Bertrand Russell's 1918 lectures on "The Philosophy of Logical Atomism." This approach tends to be dismissive of traditional metaphysical issues, and leads to some surprising conclusions. (2) Metaphysics through reflection on human experience. We will study extensive selections from the French philosopher Jean-Paul Sartre's Being and Nothingness (1943), as well as other works by him. This approach is immersed in traditional metaphysical issues. (3) Metaphysics through the conceptual analytic approach of Thomas Nagel, a contemporary philosopher. Students will write weekly reaction papers, and submit three substantial papers along with drafts and revisions. (This is a writing-intensive course.)

Instructor: J. Klagge		CRN: 15618	
Lecture:	3:30-4:45	SHULT 109	T Th

Philosophy 5306: Main Themes in the Philosophy of Modern Science and Technology

This course is an introductory graduate course. It is designed to help students become familiar with three major topics prominent in the philosophy of science and technology and to develop skill in making and evaluating arguments about these and related topics. The topics are:

(1) What lessons does the history of science offer about fundamental issues in philosophy of science? Issues covered will include the goals of science, the interrelations between theory and experiment, and contextual factors affecting scientific and technological change.

(2) The nature of progress in science and technology. Thomas Kuhn's *Structure of Scientific Revolutions* challenged traditional and deep-seated accounts of scientific progress – accounts that were important both to philosophers of science and technology and to the larger culture. We will examine some of the debates about scientific and technological change unleashed by Kuhn's book.

(3) What is the relationship between technological and scientific change? This question contains many hidden assumptions. Yet variants of this question are critical for understanding science as scientific advances ("advances"?) have come to depend increasingly on experimental technologies and as "advanced" "scientific" technologies have come to play an ever-more central role in the dominant culture.

We will employ an 'historical' approach to these topics and we will address the use of case studies in dealing with these topics. There will be short written assignments approximately every other week and a term paper. Students will have some opportunity to influence the readings employed and the issues addressed in the course.

Instructor:	R. Burian	CRN: 15619	
Lecture:	2:30-5:30	MAJWM 225	M
(Cross listed with STS 530, CRN: 15624)			

Philosophy 5506: Symbolic Logic

Modern deductive smbolic logic and its metatheory. Logical metatheory: consistency, completeness, and decidability of logical systems. (See Description for PHIL 3506)

Instructor:	D. Mayo	CRN: 14022	
Lecture:	1:25-2:15	MAJWM 225	M W F

Philosophy 6014: Special Topics in Philosophy: Technical Knowledge

What is technological knowledge? How is it manifested? In what ways is it similar to or different from scientific knowledge? What is the relationship between technological knowledge and the technically sophisticated machines, instruments and system we create? How does the technical knowledge we use to operate advanced laboratory equipment and instruments interface with the scientific knowledge that is generated? These are some of the questions we will be exploring in the course of the semester. The issues surrounding the nature, role and relation of technological knowledge to other areas is of increasing importance as we become increasingly embedded in a world of complicated artifacts and systems of artifacts. As we wrestle with some of these ideas, we hopefully will come to a better understanding of what it takes to create and manipulate artifacts in the modern world.

Instructor:	J. Pitt	CRN: 16156	
Lecture:	2:30-5:30	MAJWM 225	Th

Philosophy 6204: Advanced Topics in History of Philosophy:
Descartes and His Contemporaries

We will be discussing Descartes's *Meditations*, with *Objections* by Caterus, Mersenne, Hobbes, Arnauld and Gassendi, and *Replies* by Descartes, all within the context of Descartes's other essays and correspondence, against a background of various scholastics, skeptics, and libertines.

Texts: René Descartes, *Philosophical Essays and Correspondence*, ed. R. Ariew (Hackett, 2000).
Descartes' Meditations: Background Source Materials, ed. R. Ariew, J. Cottingham, and T. Sorell (Cambridge University Press, 1998).
Descartes and His Contemporaries: Meditations, Objections, and Replies, ed. R. Ariew and M. Grene (University of Chicago Press, 1995).

Instructor:	R. Ariew	CRN: 14027	
Lecture:	6:00-8:50	MAJWM 532	M

Philosophy 6514: Cognitive Studies Of Science and Technology

Applications of cognitive science to science and technology studies. Includes category theory, cognitive error theory, and computer modeling as research tools in projects linking history, philosophy, and sociology of science.

Instructor:	V. Hardcastle	CRN: 15770	
Lecture:	6:30-9:15	MAJWM 327	T

(This course is cross listed with STS 6514, CRN: 15774)